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THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Kunio Fukada

Serial No.: 09/879,332

Filed : June 12, 2001

For : RADIO COMMUNICATION SYSTEM, RADIO BASE-STATION APPARATUS, MOBILE RADIO-STATION APPARATUS, RADIO-ZONE ASSIGNMENT METHOD, AND RADIO COMMUNICATION METHOD

Group A.U.: 2661

I hereby certify that this paper is being deposited this date with the U.S. Postal Service in first class mail addressed to:  
Assistant Commissioner for Patents,  
Washington D.C. 20231

Jay H. Maioli  
Reg. No. 27,213

Date

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FEB 22 2002

Technology Center 2600

January 29, 2002  
1185 Avenue of the Americas  
New York, NY 10036  
(212) 278-0400

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

As a means of complying with the duty of disclosure set forth in 37 CFR §1.56 and in keeping with the guidelines of 37 CFR §1.98, Applicant hereby submits information thought to be relevant to the examination of the above-identified application. Also submitted

herewith is a completed form PTO-1449.

This information came to light during the examination of a counterpart application in the European Patent Office in an Office Action dated November 23, 2001. Accordingly, the undersigned hereby certifies that the information submitted herewith is being submitted within three months from the date of that Office Action.

To the best of the undersigned's knowledge, no Final Action or Notice of Allowance has yet been received in the above-identified application.

A copy of the Search Report from the European Patent Office showing relevance of the attached references is also submitted herewith.

U.S. Patent No. 5,726,978 (Frodigh) apparently relates to a cellular telecommunications system, and more specifically, to a method and system of adaptive channel allocation in an orthogonal frequency division multiplexed system (OFDM). The method and system provides an allocation of subcarriers to each link of the OFDM system that lessens co-channel interference between cells of the system.

European Patent Application No. 0 697 797 (Driesssen) apparently relates to a telephone or two-way digital paging communication system providing an alternative partial communication

format in which an acknowledgement signal is transmitted from a telephone device in response to a received voice or data signal. The communication system is capable of switching between different types of communication formats, including full two-way voice or data service, partial two-way service and one way pager service.

European Patent Application No. 0 975 184 (Johnson) apparently relates to a method for allocating resources to a terminal in a communication system. The system is arranged to support a first duplexing scheme and a second duplexing scheme. The first or second duplexing scheme is allocated to the terminal in response to at least one criteria relating to the spectral use of the system. This in turn, optimizes the spectral efficient use of the system by the terminal.

European Patent Application 0 986 196 (Fukada) apparently relates to a bidirectional communication system with a base station device wherein one frame is prescribed for each predetermined time period, and a plurality of time slots are formed in one frame.

Radio Resource Management Technique for Multilayered Cell System with Different Bandwidths, Kojima F. Et al., Electronics Letters, vol.33, no. 15, July 17, 1997 apparently relates to a microcell system which is assigned a wider bandwidth than that of

7217/64721

the macrocell system in order to enable higher bit rate transmission. Consequently, the radio spectrum is dynamically shared by both microcell and macrocell systems using a channel partitioning technique to minimize the total blocking rate of both systems under any traffic condition.

No fee is deemed necessary in connection with the filing of this Information Disclosure Statement. However, if a fee is required for this submission, the Commissioner is authorized to charge the requisite fee to our Deposit Account No. 03-3125.

Respectfully submitted,  
COOPER & DUNHAM LLP



Jay H. Maioli  
Reg No. 27,213

JHM/DRM



| Form PTO-1449<br>U.S. Department of Commerce<br>Patent and Trademark Office   |  |   |   |                 |      |         |       | Atty. Docket No.<br>7217/64721      | Serial No.<br>09/879,332      |
|---|--|---|---|-----------------|------|---------|-------|-------------------------------------|-------------------------------|
| <b>INFORMATION DISCLOSURE STATEMENT</b><br>(Use several sheets if necessary)  |  |   |   |                 |      |         |       | Applicant<br><b>Kunio FUKUDA</b>    |                               |
|   |  |   |   |                 |      |         |       | Filing Date<br><b>June 12, 2001</b> | Group<br><b>2661</b>          |
| <b>U.S. PATENT DOCUMENTS</b>  |  |   |   |                 |      |         |       |                                     |                               |
| Examiner Initial  |  | Document Number   |   |                 | Date | Name    | Class | Subclass                            | Filing Date if Appropriate    |
|   |  | 5   | 7 | 2               | 6    | 9       | 7     | 8                                   | 10 Mar 98 US                  |
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| <b>FOREIGN PATENT DOCUMENTS</b>   |  |   |   |                 |      |         |       |                                     |                               |
|   |  | Document Number   |   |                 | Date | Country | Class | Subclass                            | Translation                   |
|   |  | 0   | 6 | 9               | 7    | EP      | .     |                                     | <b>Yes</b>                    |
|   |  | 0   | 9 | 7               | 5    | EP      |       |                                     | <b>No</b>                     |
|   |  | 0   | 9 | 8               | 6    | EP      |       |                                     |                               |
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|   |  |   |   |                 |      |         |       |                                     |                               |
|   |  |   |   |                 |      |         |       |                                     |                               |
| <b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>   |  |   |   |                 |      |         |       |                                     |                               |
|   |  | Radio Resource Management Technique For Multilayered Cell System with Different Bandwidths, Kojima F. et al, Electronic Letters, vol. 33, No. 15, July 17, 1997 |   |                 |      |         |       |                                     |                               |
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| EXAMINER  |  |   |   | DATE CONSIDERED |      |         |       |                                     |                               |
| <small>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609:<br/>         Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</small> |  |   |   |                 |      |         |       |                                     |                               |